Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-07-16-13**

Sample ID No : 2018-07-16-13 /02(b)

Date: 19-07-18

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.9	
3	Specific Gravity	2.63	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.53	–
6	Water Absorption(%)	0.21	–
7	Aggregate crushing Value(%)	25.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface
8	Aggregate Impact Value(%)	24.6	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

End of Report

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2018-07-16-13

Date: 19-07-18

Customer : Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore.

Address : T-Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Construction and repairs to culverts in Dasarahalli in ward no. 15

Agency : Sri. D.V. Kumar, No. 657/1, 5th Main, Lava Kusha Nagara, Laggere, Bengaluru-58

Customer's Reference : EE/DD/WO/272/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-07-18

Sample ID No : 2018-07-16-13 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 16-07-18

Total weight taken : 1000 grams

Slno	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	18	18	1.8	98.2	90-100	90-100	90-100	95-100
3	2.36 mm	155	173	17.3	82.7	60-95	75-100	85-100	95-100
4	1.18 mm	201	374	37.4	62.6	30-70	55-90	75-100	90-100
5	600 micron	196	570	57.0	43.0	15-34	35-59	60-79	80-100
6	300 micron	172	742	74.2	25.8	5-20	8-30	12-40	15-50
7	150 micron	183	925	92.5	7.5	0-10	0-10	0-10	0-15
8	Pan	75	1000	100.0	0.0	—	—	—	—

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-07-16-13**

Sample ID No : 2018-07-16-13 /03

Date: 19-07-18

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.28	-
2	Specific Gravity	2.54	-
3	Material finer than 75 micron(%)	6.7	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Quality Manager

CIVIL PRO Sign Date BANGALORE

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TEST RESULTS OF STEEL

Format No: CPTF/01

Lab ID	:	CP-2018-07-16-13
Customer	:	Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T-Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction and repairs to culverts in Dasarahalli in ward no. 15
Agency	:	Sri. D.V. Kumar, No. 657/1, 5th Main, Lava Kusha Nagara, Laggere, Bangalore-58
Customer's Reference	:	EE/DD/WO/272/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-07-18
Sample ID No	:	2018-07-16-13 /05
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	17-07-18

Date: 18-07-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.392	529	658	22.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.612	538	677	21.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.825	572	692	21.0%	Satisfactory	Satisfactory

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Format No: CP/TR/05

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 03/08/2018

Lab ID	:	CP-2018-07-30-14
Customer	:	Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore
Address	:	T-Dasarahalli Sub Division, BBMP, Bangalore
Project Name	:	Construction and repairs to culverts in Dasarahalli in ward no. 15
Agency	:	Sri. D.V. Kumar, No. 657/1, 5th Main, Lava Kusha Nagara, Laggere, Bangalore-58
Customer's Reference	:	EE/DD/WO/272/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-07-18
Sample ID No	:	2018-07-30-14 /01
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	M20 Concrete	M20	27/07/2018	03/08/2018	150.63 X 150.52 X 150.87	22672	8.426	408.7	18.0	18.4
2	M20 Concrete	M20	27/07/2018	03/08/2018	150.49 X 151.64 X 151.99	22821	8.378	424.0	18.6	
3	M20 Concrete	M20	27/07/2018	03/08/2018	150.17 X 150.45 X 149.56	22593	8.124	420.9	18.6	

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